

C007-7022USO - Sequence Listing SEQUENCE LISTING

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Cohen, Edward H
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Leu Asn Trp Tyr Gln Gln Lys Thr Gly Lys Ala Pro Lys Ala Leu Ile
35 40 45
Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly 50 60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Leu 65 70 75 80
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Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr 20 25 30

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val 50 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

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Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ala Leu Ile 35 40 45

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly 50 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro 65 70 75 80 Page 6

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Ser 85 90 95

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Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val 50 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

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Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Val 35 40 45

Tyr Gly Ala Ser Thr Arg Ala Thr Gly Val Pro Ala Arg Phe Ser Gly 50 60

Ser Gly Ser Gly Thr Ala Phe Thr Leu Thr Ile Asp Ser Leu Gln Ser 65 70 75 80

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Tyr Ser Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr 100 105 110

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Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Leu Tyr Ala Asp Ser Val 50 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

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C007-7022USO - Sequence Listing
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Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Phe Gln 35 40 45
Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Asn 50 60
Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Val Asp 70 75 80
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Ser Met Gln Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

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Ala Arg Ser Phe Ser Pro Pro Arg Ala Gly Arg His Phe Gly Tyr Arg 35 40 45

Val Leu Gln Val Gly Asn Gly Val Ile Val Gly Ala Pro Gly Glu Gly 50 60

Asn Ser Thr Gly Ser Leu Tyr Gln Cys Gln Ser Gly Thr Gly His Cys 65 70 75 80

Leu Pro Val Thr Leu Arg Gly Ser Asn Tyr Thr Ser Lys Tyr Leu Gly 85 90 95

Page 11

Met Thr Leu Ala Thr Asp Pro Thr Asp Gly Ser Ile Leu Ala Cys Asp 100 105 110 Pro Gly Leu Ser Arg Thr Cys Asp Gln Asn Thr Tyr Leu Ser Gly Leu 115 120 125 Cys Tyr Leu Phe Arg Gln Asn Leu Gln Gly Pro Met Leu Gln Gly Arg 130 135 140 Pro Gly Phe Gln Glu Cys Ile Lys Gly Asn Val Asp Leu Val Phe Leu 145 150 155 160 Phe Asp Gly Ser Met Ser Leu Gln Pro Asp Glu Phe Gln Lys Ile Leu 165 170 175 Asp Phe Met Lys Asp Val Met Lys Leu Ser Asn Thr Ser Tyr Gln
180 185 190 Phe Ala Ala Val Gln Phe Ser Thr Ser Tyr Lys Thr Glu Phe Asp Phe 195 200 205 Ser Asp Tyr Val Lys Trp Lys Asp Pro Asp Ala Leu Leu Lys His Val 210 215 220 Lys His Met Leu Leu Chr Asn Thr Phe Gly Ala Ile Asn Tyr Val 225 230 235 240 Ala Thr Glu Val Phe Arg Glu Glu Leu Gly Ala Arg Pro Asp Ala Thr 245 250 255 Lys Val Leu Ile Ile Ile Thr Asp Gly Glu Ala Thr Asp Ser Gly Asn $260 \hspace{1.5cm} 265 \hspace{1.5cm} 270$ Ile Asp Ala Ala Lys Asp Ile Ile Arg Tyr Ile Ile Gly Ile Gly Lys 275 280 285 His Phe Gln Thr Lys Glu Ser Gln Glu Thr Leu His Lys Phe Ala Ser 290 295 300 Lys Pro Ala Ser Glu Phe Val Lys Ile Leu Asp Thr Phe Glu Lys Leu 305 310 315 320Lys Asp Leu Phe Thr Glu Leu Gln Lys Lys Ile Tyr Val Ile Glu Gly 325 330 335 Thr Ser Lys Gln Asp Leu Thr Ser Phe Asn Met Glu Leu Ser Ser Ser 340 . 345 . 350

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410
415 Thr Ser Leu Leu Ala Ser Gly Ala Pro Arg Tyr Gln His Met Gly Arg 420 425 430 Val Leu Leu Phe Gln Glu Pro Gln Gly Gly Gly His Trp Ser Gln Val 435 440 445 Gln Thr Ile His Gly Thr Gln Ile Gly Ser Tyr Phe Gly Gly Glu Leu 450 455 460 Cys Gly Val Asp Val Asp Gln Asp Gly Glu Thr Glu Leu Leu Ile 465 470 475 480 Gly Ala Pro Leu Phe Tyr Gly Glu Gln Arg Gly Gly Arg Val Phe Ile 485 490 495 Tyr Gln Arg Arg Gln Leu Gly Phe Glu Glu Val Ser Glu Leu Gln Gly 500 505 510 Asp Pro Gly Tyr Pro Leu Gly Arg Phe Gly Glu Ala Ile Thr Ala Leu 515 520 525 Thr Asp Ile Asn Gly Asp Gly Leu Val Asp Val Ala Val Gly Ala Pro 530 540 Leu Glu Glu Gln Gly Ala Val Tyr Ile Phe Asn Gly Arg His Gly Gly 545 550 555 560 Leu Ser Pro Gln Pro Ser Gln Arg Ile Glu Gly Thr Gln Val Leu Ser 565 570 575 Gly Ile Gln Trp Phe Gly Arg Ser Ile His Gly Val Lys Asp Leu Glu 580 585 590 Gly Asp Gly Leu Ala Asp Val Ala Val Gly Ala Glu Ser Gln Met Ile Page 12

Val Leu Ser Ser Arg Pro Val Val Asp Met Val Thr Leu Met Ser Phe Ser Pro Ala Glu Ile Pro Val His Glu Val Glu Cys Ser Tyr Ser Thr Ser Asn Lys Met Lys Glu Gly Val Asn Ile Thr Ile Cys Phe Gln Ile 645 650 655 Lys Ser Leu Tyr Pro Gln Phe Gln Gly Arg Leu Val Ala Asn Leu Thr 660 665 670 Tyr Thr Leu Gln Leu Asp Gly His Arg Thr Arg Arg Gly Leu Phe 675 680 685 Pro Gly Gly Arg His Glu Leu Arg Arg Asn Ile Ala Val Thr Thr Ser 690 700 Met Ser Cys Thr Asp Phe Ser Phe His Phe Pro Val Cys Val Gln Asp 705 710 715 720 Leu Ile Ser Pro Ile Asn Val Ser Leu Asn Phe Ser Leu Trp Glu Glu 725 730 735 Glu Gly Thr Pro Arg Asp Gln Arg Ala Gln Gly Lys Asp Ile Pro Pro 740 745 750Leu Leu Arg Pro Ser Leu His Ser Glu Thr Trp Glu Ile Pro Phe Glu 755 760 765 Lys Asn Cys Gly Glu Asp Lys Lys Cys Glu Ala Asn Leu Arg Val Ser 770 780 Phe Ser Pro Ala Arg Ser Arg Ala Leu Arg Leu Thr Ala Phe Ala Ser 785 790 795 800 Leu Ser Val Glu Leu Ser Leu Ser Asn Leu Glu Glu Asp Ala Tyr Trp 805 810 815 Val Gln Leu Asp Leu His Phe Pro Pro Gly Leu Ser Phe Arg Lys Val 820 825 830 Glu Met Leu Lys Pro His Ser Gln Ile Pro Val Ser Cys Glu Glu Leu 835 840 845

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Asn	val	Thr	Cys 900	Asn	Asn	Glu	Asp	ser 905	Asp	Leu	Leu	Glu	Asp 910	Asn	Ser
Ala	Thr	Thr 915	Ile	Ile	Pro	Ile	Leu 920	Туг	Pro	Ile	Asn	Ile 925	Leu	Ile	Gln
Asp	G]n 930	Glu	Asp	Ser	Thr	Leu 935	Tyr	Val	Ser	Phe	Thr 940	Pro	Lys	Gly	Pro
Lys 945	Ilė	His	Gln	∨al	Lys 950	His	Met	Tyr	Gln	val 955	Arg	Ile	Gln	Pro	ser 960
Ile	His	Asp	His	Asn 965	Ile	Pro	Thr	Leu	Glu 970	Ala	val	val	Gly	Val 975	Pro
Gln	Pro	Pro	Ser 980	Glu	Gly	Pro	Ile	Thr 985	His	Gln	Trp	Ser	va1 990	Gln	Met
Glu	Pro	Pro 995	٧a٦	Pro	Cys	His	Tyr 100		u Ası	p Lei	u Glu	u Ar	g L(05	eu Pi	ro Asp
Ala	Ala 1010		ı Pro	Cys	s Leu	10:		ly A	la L	eu Pl		rg (020	Cys I	Pro ۱	/al
val	Phe 1025	Arç 5	g G1r	ı Glı	ılle	10:	u V: 30	al G	ln Va	al I	le G	ly ⁻ 035	Thr (Leu (31u
Leu	Val 1040		y Glu	ı Ile	e Glu	104		er S	er M	et Pl		er 050	Leu (Cys s	Ser
Ser	Leu 105		r Ile	e Sei	• Phe	100		er S	er L	ys H		he 065	His	Leu ⁻	Гуr
Gly	Ser 1070		n Ala	a Sei	· Leu	10		ln ∨	al V	al M	et Ly 10	ys 080	val /	۹sp ۱	/al
۷al	Tyr 108!		u Ly:	s Glr	n Met	Lei 10		yr L	eu T	yr Va	al Lo	eu 095	Ser (Gly :	Ile

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- Val Gly Phe Phe Lys Arg Asn Leu Lys Glu Lys Met Glu Ala Gly 1115 1120 1125
- Arg Gly Val Pro Asn Gly Ile Pro Ala Glu Asp Ser Glu Gln Leu 1130 1140
- Ala Ser Gly Gln Glu Ala Gly Asp Pro Gly Cys Leu Lys Pro Leu 1145 1150 1155
- His Glu Lys Asp Ser Glu Ser Gly Gly Gly Lys Asp 1160 1165 1170

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Cys Arg Glu Cys Ile Glu Ser Gly Pro Gly Cys Thr Trp Cys Gln Lys 35 40 45

Leu Asn Phe Thr Gly Pro Gly Asp Pro Asp Ser Ile Arg Cys Asp Thr 50 60

Arg Pro Gln Leu Leu Met Arg Gly Cys Ala Ala Asp Asp Ile Met Asp 65 70 75 80

Pro Thr Ser Leu Ala Glu Thr Gln Glu Asp His Asn Gly Gln Lys 85 90 95

Gln Leu Ser Pro Gln Lys Val Thr Leu Tyr Leu Arg Pro Gly Gln Ala 100 105 110

Ala Ala Phe Asn Val Thr Phe Arg Arg Ala Lys Gly Tyr Pro Ile Asp 115 120 125

Leu Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met Leu Asp Asp Leu Arg 130 135 140

Asn Val Lys Lys Leu Gly Gly Asp Leu Leu Arg Ala Leu Asn Glu Leu 145 150 155 Thr Glu Ser Gly Arg Ile Gly Phe Gly Ser Phe Val Asp Lys Thr Val 165 170 175 Leu Pro Phe Val Asn Thr Ile Ile Pro Asp Lys Leu Arg Asn Pro Cys Pro Asn Lys Glu Lys Glu Cys Gln Pro Pro Phe Ala Phe Arg His Val 195 200 205 Leu Lys Leu Thr Asn Asn Ser Asn Gln Phe Gln Thr Glu Val Gly Lys 210 220 Gln Leu Ile Ser Gly Asn Leu Asp Ala Pro Glu Gly Gly Leu Asp Ala 225 230 235 240 Met Met Gln Val Ala Ala Cys Pro Glu Glu Ile Gly Trp Arg Asn Val 245 250 255 Thr Arg Leu Leu Val Phe Ala Thr Asp Asp Gly Phe His Phe Ala Gly 260 265 270 Asp Gly Lys Leu Gly Ala Ile Leu Thr Pro Asn Asp Gly Arg Cys His 275 280 285 Leu Glu Asp Asn Leu Tyr Lys Arg Ser Asn Glu Phe Asp Val Pro Ser 290 295 300 Val Gly Gln Leu Ala His Lys Leu Ala Glu Asn Asn Ile Gln Pro Ile 305 310 315 320 Phe Ala Val Thr Ser Arg Met Val Lys Thr Tyr Glu Lys Leu Thr Glu 325 330 335 Ile Ile Pro Lys Ser Ala Val Gly Glu Leu Ser Glu Asp Ser Ser Asn 340 345 350 Val Val His Leu Ile Lys Asn Ala Tyr Asn Lys Leu Ser Ser Arg Val 355 360 365 Phe Leu Asp His Asn Ala Leu Pro Asp Thr Leu Lys Val Thr Tyr Asp 370 380 Ser Phe Cys Ser Asn Gly Val Thr His Arg Asn Gln Pro Arg Gly Asp 385 390 395 400 Page 16

Cys Asp Gly Val Gln Ile Asn Val Pro Ile Thr Phe Gln Val Lys Val 405 410 415 Thr Ala Thr Glu Cys Ile Gln Glu Gln Ser Phe Val Ile Arg Ala Leu 420 425 430 Gly Phe Thr Asp Ile Val Thr Val Gln Val Leu Pro Gln Cys Glu Cys 435 440 445 Arg Cys Arg Asp Gln Ser Arg Asp Arg Ser Leu Cys His Gly Lys Gly 450 460 Phe Leu Glu Cys Gly Ile Cys Arg Cys Asp Thr Gly Tyr Ile Gly Lys 465 470 475 480 Asn Cys Glu Cys Gln Thr Gln Gly Arg Ser Ser Gln Glu Leu Glu Gly 485 490 495 Ser Cys Arg Lys Asp Asn Asn Ser Ile Ile Cys Ser Gly Leu Gly Asp $500 \hspace{1.5cm} 505 \hspace{1.5cm} 510$ Cys Val Cys Gly Gln Cys Leu Cys His Thr Ser Asp Val Pro Gly Lys 515 520 525 Leu Ile Tyr Gly Gln Tyr Cys Glu Cys Asp Thr Ile Asn Cys Glu Arg 530 540 Tyr Asn Gly Gln Val Cys Gly Gly Pro Gly Arg Gly Leu Cys Phe Cys 545 550 555 560 Gly Lys Cys Arg Cys His Pro Gly Phe Glu Gly Ser Ala Cys Gln Cys 565 570 575 Glu Arg Thr Thr Glu Gly Cys Leu Asn Pro Arg Arg Val Glu Cys Ser 580 585 590 Gly Arg Gly Arg Cys Arg Cys Asn Val Cys Glu Cys His Ser Gly Tyr 595 600 605 Gln Leu Pro Leu Cys Gln Glu Cys Pro Gly Cys Pro Ser Pro Cys Gly 610 620 Lys Tyr Ile Ser Cys Ala Glu Cys Leu Lys Phe Glu Lys Gly Pro Phe 625 635 640 Gly Lys Asn Cys Ser Ala Ala Cys Pro Gly Leu Gln Leu Ser Asn Asn Page 17

Pro Val Lys Gly Arg Thr Cys Lys Glu Arg Asp Ser Glu Gly Cys Trp 660 670

Val Ala Tyr Thr Leu Glu Gln Gln Asp Gly Met Asp Arg Tyr Leu Ile 675 680 685

Tyr Val Asp Glu Ser Arg Glu Cys Val Ala Gly Pro Asn Ile Ala Ala 690 700

Asn Gly Gly Thr Val Ala Gly Ile Val Leu Ile Gly Ile Leu Leu 205 710 715 720

Val Ile Trp Lys Ala Leu Ile His Leu Ser Asp Leu Arg Glu Tyr Arg 725 730 735

Arg Phe Glu Lys Glu Lys Leu Lys Ser Gln Trp Asn Asn Asp Asn Pro 740 745 750

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Ser

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Lys Leu Ser Asn Thr Ser Tyr Gln Phe Ala Ala Val Gln Phe Ser Thr 35 40 45

Ser Glu Glu Glu Glu Glu Glu Glu Asx Thr Thr Ser His His 50 55 60

Thr Ser Ser Glu Glu Glu Glu Glu Glu Glu Ser Ser Ser Tyr Lys Page 18

Thr Glu Phe Asp Phe Ser Asp Tyr Val Lys Arg Lys Asp Pro Asp Ala 100 105 110Leu Leu Lys His Val Lys His Met Leu Leu Leu Thr Asn Thr Phe Gly 125 Ala Ile Asn Tyr Val Ala Thr Glu Val Phe Arg Glu Glu Leu Gly Ala 130 135 140 Glu Glu Glu Ser Asx His His His His His His Thr Thr His His His Thr Thr Gly Gly Gly Thr Arg Pro Asp Ala Thr Lys Val Leu 180 185 190 Ile Ile Ile Thr Asp Gly Glu Ala Thr Asp Ser Gly Asn Ile Asp Ala 195 200 205 Ala Lys Asp Ile Ile Arg Tyr Ile Ile Gly Ile Gly Lys His Phe Gln 210 215 220 Thr Lys Glu Ser Gln Glu Thr Leu His Lys Thr Thr Ser Glu Glu Glu 225 235 240 Glu Glu Glu Glu Ser Ser Gly Gly Gly Thr Thr Ser Glu Glu Glu 245 250 255 Glu Glu Glu Ser Ser Thr Thr Thr Gly Gly Gly Thr Thr Phe 260 265 270 Ala Ser Lys Pro Ala Ser Glu Phe Val Lys Ile Leu Asp Thr Phe Glu 275 280 285

Lys Leu Lys Asp Leu Phe Thr Glu Leu Gln Lys Lys Ile Thr Ser Ser 290 295 300

Ser His His His Glu Glu Glu Thr Thr Thr Thr Thr Thr Thr Thr 305 310 315 320

Thr Thr Thr

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Tyr Leu Asn Trp Tyr Gln Gln Lys Thr Gly Lys Ala Pro Lys Ala Leu 35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser 50 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln 65 70 75 80

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Gly Glu Arg Val Thr Leu Ser Cys Thr Ala Ser Gln Ser Val Asp Ser 20 25 30

Asn Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu 35 40 45

C007-7022USO - Sequence Listing Val Tyr Gly Ala Ser Thr Arg Ala Thr Gly Val Pro Ala Arg Phe Ser 50 60 Gly Ser Gly Ser Gly Thr Ala Phe Thr Leu Tyr Ile Asp Ser Leu Gln 65 70 75 80 Ser Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Lys Trp Pro Pro Tyr Ser Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr 100 105 110<210> 35 106 <211> <212> **PRT** <213> Homo sapiens <220> <221> Protein <222> (1)..(106)<400> 35 Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
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C007-7022USO - Sequence Listing
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Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val 50 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

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Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Leu Tyr Ala Asp Ser Val 50 60 Page 22

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95 Ala Lys His Tyr Ser Tyr Ala Met Asp Val Trp Gly Gln Gly Thr Thr 100 105 110 Val Thr Val Ser Ser 115 <210> 38 122 <211> <212> **PRT** <213> Homo sapiens <220> <221> misc_feature (100)..(100)<223> Xaa can be any naturally occurring amino acid <400> Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 1 5 10 15 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser His Tyr 20 25 30 Ser Met Gln Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95 Ala Arg Gly Xaa Ala Ala Thr Tyr Asn Thr Ser Pro Phe Asp Tyr Trp 100 105 110

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Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val 50 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

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Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val 50 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

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Gly Thr Met Val Thr Val Ser Ser 115 120

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Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val 50 60

Lys Gly Arg Phe Thr Leu Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

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C007-7022USO - Sequence Listing
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Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Leu Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

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Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val 50 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

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Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val 50 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80 Page 30

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Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val 50 60

Lys Gly Arg Phe Thr Leu Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

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Page 31

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Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ala Leu Ile 35 40 45

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly 50 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Ser 85 90 95

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro 100 105 110

Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr 115 120 125

Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys 130 135 140

Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu 145 150 155 160

Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser 165 170 175

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Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val 50 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

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Gly Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val 115 120 125

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Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser 145 150 155 160 Page 34

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405

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